

Title (en)  
DIGITAL WIRELESS COMMUNICATION DEVICE AND DIGITAL WIRELESS COMMUNICATION SYSTEM

Title (de)  
VORRICHTUNG ZUR DIGITALEN DRAHTLOSEN KOMMUNIKATION UND SYSTEM ZUR DIGITALEN DRAHTLOSEN KOMMUNIKATION

Title (fr)  
DISPOSITIF ET SYSTÈME DE COMMUNICATION SANS FIL NUMÉRIQUE

Publication  
**EP 3190715 A4 20180502 (EN)**

Application  
**EP 15838383 A 20150903**

Priority

- JP 2014180668 A 20140904
- JP 2015005292 A 20150114
- JP 2015075087 W 20150903

Abstract (en)  
[origin: EP3190715A1] A composite cable (4) houses a plurality of leaky coaxial cables having mutually different radiation characteristics. The leaky coaxial cable (2a, 2b) includes therein an inner conductor and an outer conductor, and has a plurality of leakage slots. The plurality of leakage slots have different slot periods relative to the axial direction or arranged in different slot patterns. The digital wireless communication device feeds a high-frequency signal from an end of the composite cable (4) and performs MIMO (multiple-input multiple-output) communication.

IPC 8 full level  
**H04B 5/00** (2006.01); **H01Q 13/20** (2006.01); **H01Q 13/22** (2006.01); **H01Q 25/00** (2006.01); **H04B 7/0413** (2017.01); **H04J 99/00** (2009.01); **H01Q 21/28** (2006.01); **H04B 7/10** (2017.01)

CPC (source: EP US)  
**H01Q 13/203** (2013.01 - EP US); **H01Q 13/22** (2013.01 - EP US); **H01Q 25/004** (2013.01 - EP US); **H04B 1/0483** (2013.01 - US); **H04B 5/28** (2024.01 - EP US); **H04B 7/04** (2013.01 - EP US); **H04B 7/0413** (2013.01 - EP US); **H01Q 21/28** (2013.01 - EP US); **H04B 7/10** (2013.01 - EP US)

Citation (search report)

- [XYI] EP 2495882 A1 20120905 - ALCATEL LUCENT [FR]
- [XYI] JONAS MEDBO ET AL: "Leaky coaxial cable MIMO performance in an indoor office environment", 2012 IEEE 23RD INTERNATIONAL SYMPOSIUM ON PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS (PIMRC 2012) : SYDNEY, AUSTRALIA, 9 - 12 SEPTEMBER 2012, IEEE, PISCATAWAY, NJ, 9 September 2012 (2012-09-09), pages 2061 - 2066, XP032272886, ISBN: 978-1-4673-2566-0, DOI: 10.1109/PIMRC.2012.6362694
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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